WIRE COLOR SCHEME TERMINAL IDENTIFICATION BLACK - LINE VOLTAGE X - DRIVE TERMINAL RED - AC CONTROL WHITE - AC GROUNDED - CUSTOMER TERMINAL CIRCUIT CONDUCTOR
BLUE - DC CONTROL GREEN - CHASSIS GROUND EARTH GROUND EARTH GROUND GRN / \* AC MOTOR 1 HOL1 (SEE NOTES 6) 4T1 (L1) M2 (T1) 2T1 \*CUSTOMER 1T1 (L1) <u>T1</u> 5L1 L1/R/91 VLT INPUT SUPPLIED T1/U/96 [F16A] -TF18AT-5L2 POWER ADJUSTABLE FREQUENCY 4T2 (L2) (T2) 1T2 (L2) T2 FEEDER L2 BLK 2L2 3L2 <u>i</u> ⊸^ -[F18B] 3 PH, 600V, L2/S/92 T2/V/97 |F16B| 5L3 | L2/3/92 | |F16C| 5L3 | L3/T/93 DRIVE 1T3 (L3) T3 CIRCUIT BLK 2L3 4T3 (L3) (T3) PROTECTION T3/W/98 -TF18CT-(AFD) 60Hz (SEE NOTE 3) CB1 DRIVE INPUT FUSES DRIVE CIRCUIT \*AC MOTOR 2 DISCONNECT BREAKER (L1) (T1) (L2) (T2) OL2 (SEE NOTES 6) 3T1 (L1) T1 3T2 (L2) T2 EARTH GROUND GRN [F19A] (T2 T3 F19B 3T3 (L3) (L3) (T3) -[F19C] 163 RED 100 WHT -| F12 |-X2 X3 250V 115VAC T2 3<u>—</u> TB2 (12) (4) HEATER (SET: 65° F) (12) 5 (11) TS1 CR6 167 1 (9) (5) 2)FAN 1 (SET: 80°F) (23) (24) TB2 TS1 TO SHEET 2 TO SHEET 2

WARNING!
THE FOLLOWING TABLE LISTS THE PARAMETERS THAT
ARE SET DIFFERENT FROM THE DRIVE DEFAULT SETTINGS.
ADDITIONAL PARAMETER SETTINGS MAY BE REQUIRED
FOR YOUR APPLICATION.

#### DRIVE PARAMETER SETTINGS

| PARAMETER # | ARAMETER # NAME   |    | VALUE              |
|-------------|-------------------|----|--------------------|
| 0-02        | MOTOR SPEED UNIT  | 1  | HZ                 |
| 0-03        | REGIONAL SETTINGS | 1  | NORTH AMERICA      |
| 1-03        | TORQUE CHAR.      | 1  | VARIABLE TORQUE    |
| 5-02        | TERMINAL 29 TYPE  | 1  | OUTPUT             |
| 5-31        | TERMINAL 29       | 5  | RUNNING            |
| 14-20       | RESET MODE        | 13 | INFINITE AUTO REST |
|             |                   |    |                    |
|             |                   |    |                    |

## NOTES:

- 1. \* INDICATES COMPONENTS NOT SUPPLIED BY MANUFACTURER.
- 2. REFER TO THE INSTALLATION AND OPERATION MANUAL FOR DRIVE FUNCTIONS AND PARAMETER SETTINGS.
- 3. FEEDER CIRCUIT PROTECTION, INPUT POWER AND MOTOR WIRING MUST BE SELECTED IN ACCORDANCE WITH THE N.E.C., ANY APPLICATION LOCAL CODES AND THE LOAD CURRENT RATING.
- 4. REPLACE JUMPER 'J1' WITH NORMALLY CLOSED SAFETY INTERLOCK CONTACT AS NECESSARY. CONTACT MUST BE RATED 1/4 HP @ 120VAC MINIMUM.
- 5. PANEL MAY REQUIRE DERATING, CONSULT DRIVE MANUAL OR FACTORY FOR FOLLOWING CONDITIONS:
- 5.1. HIGHER SWITCHING FREQUENCY THAN DRIVE DEFAULT
- 5.2. HIGHER THAN PANEL LISTED AMBIENT TEMPERATURES
- 5.3. ELEVATION ABOVE 3300 FEET (1000 METERS)
- 5.4. LONG MOTOR LEAD LENGTHS
- 6. WHEN MOTOR OVERLOADS SIZES ARE DIFFERENT, MOTOR 1 WILL BE THE LARGER OF THE TWO MOTORS

| В   |         |         | - NOTICE - THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF DANFOSS DRIVES.   | DRN  | NAME  |        | EMA 3R,600V,2C            |                | The less     |
|-----|---------|---------|--|------|-------|--------|---------------------------|----------------|--------------|
| А   | SP10119 | 11/10   | IT IS LOANED BY DANFOSS DRIVES SUBJECT TO THE CONDITIONS THAT IT AND THE INFORMATION EMBODIED THEREIN SHALL BE USED ONLY FOR RECORD AND REFERENCE PURPOSES, SHALL NOT BE USED OR CAUSED TO BE USED | D TM |       |        |                           | ve fuse<br>Fan | Janjuss      |
| DR  | SP10076 | ln9 /10 | IN ANY WAY PREJUDICIAL TO THE INTERESTS OF DANFOSS DRIVES, SHALL  NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, OR DISCLOSED  | APR  | MODEL | ,31418 | ,DUAL MUTUR,T             | SIZE A         |              |
| REV | ECN     | DATE    | TO ANYONE WITHOUT THE DIRECT WRITTEN PERMISSION OF DANFOSS DRIVES AND SHALL BE RETURNED UPON REQUEST.  | D TM | MODEL | VLT    | page <u>1</u> of <u>2</u> | SIZE A         | NO. 185B0811 |

WIRE COLOR SCHEME BLUE - DC CONTROL

GREEN - CHASSIS GROUND

BLUE - DC CONTROL

GREEN - CHASSIS GROUND

### TERMINAL IDENTIFICATION

X - DRIVE TERMINAL

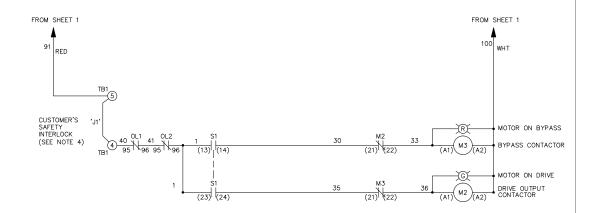
 $\overline{\otimes}$ - CUSTOMER TERMINAL

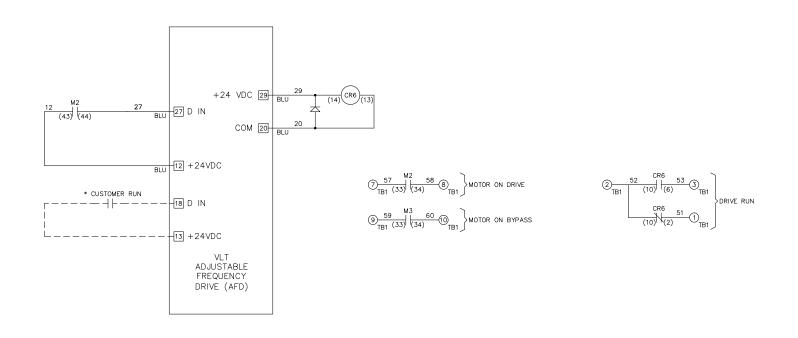
#### CUSTOMER DRY CONTACT RATINGS

| RELAY  | CONTACT RATING                  |  |  |
|--------|---------------------------------|--|--|
| CR6    | 5A @ 120VAC<br>1/10 HP @ 120VAC |  |  |
| M2, M3 | 10A @ 120/240VAC                |  |  |

# CONTACT SEQUENCE CHART FOR S1

| A INDICATES CONTACT CLOSED |       |     |        |
|----------------------------|-------|-----|--------|
| POSITION                   |       |     |        |
| CONTACT                    | DRIVE | OFF | BYPASS |
| 13-14                      |       |     | Χ      |
| 23-24                      | Χ     |     |        |





| В   |         |       |
|-----|---------|-------|
| Α   | SP10119 | 11/10 |
| DR  | SP10076 | 09/10 |
| REV | ECN     | DATE  |

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| DRN         | NAME |
|-------------|------|
| D TM        | ,MA  |
| <b>,</b> DD |      |

DTM

NEMA 3R,600V,2C AIN CB, DRIVE DISC, DRIVE FUSE ,3MB,DUAL MOTOR,1 FAN



MODEL PAGE <u>2</u> OF <u>2</u> VLT